Technological Forecasting and Social Change

An International Journal

Volume 45, Number 1, January 1994

Contents

BRUCE BANER JOHNSON and JACQUES MARCOVITCH (São Paulo, Brazil)	Uses and Applications of Technology Futures in National Development: The Brazilian Experience	1
TAEYOUNG SHIN and HOAGY KIM (Seoul, Korea)	Research Foresight Activities and Technological Development in Korea: Science and Technology Policies in National R&D Programs	31
DENIS GOULET (Notre Dame, IN)	Participatory Technology Assessment: Institutions and Methods	47
SUSANTHA GOONATILAKE (New York, NY)	Technology Assessment: Some Questions from a Developing Country Perspective	63
KAORU YAMAGUCHI and HIROYUKI NIWA (Nisshin-Cho, Japan)	New Thinking on Japanese Community Development in the Information Age	79
	Technical Note	
MAGOROH MARUYAMA (Tokyo, Japan)	Interwoven and Interactive Heterogeneity in the 21st Century	93
	Column	
JOSEPH F. COATES (Washington, DC)	*From My Perspective* What Do the Tender-Minded Have to Teach the Tough-Minded?	103
	Book Review	
MARVIN ADELSON (Los Angeles, CA)	*Paradigms in Progress: Life Beyond Economics* (Hazel Henderson)	109

Volume 45, Number 2, February 1994

JONATHAN L. GIFFORD (Fairfax, VA)	*Issues Paper #11* Adaptability and Flexibility in Urban Transportation Policy and Planning	111
ALAN JARMAN (Canberra, Australia) **and ALEXANDER KOUZMIN** (Nepean, Australia)	Disaster Management as Contingent Meta-Policy Analysis: Water Resource Planning	119
PAUL C. NUTT and ROBERT W. BACKOFF (Columbus, OH)	Transforming Public and Third Sector Organizations Facing Difficult Times	131
NAWAZ SHARIF (Bangkok, Thailand)	Integrating Business and Technology Strategies in Developing Countries	151
DAVID COLLINGRIDGE (Birmingham, U.K.) **AUDLEY GENUS** (London, U.K.) **and PETER JAMES** (Berkhamsted, U.K.)	Inflexibility in the Development of North Sea Oil	169

Ronald N. Kostoff (Arlington, VA) — Quantitative/Qualitative Federal Research Impact Evaluation Practices — 189

Column

WILLIAM E. HALAL (Washington, DC) — *From My Perspective* The Transition from Hierarchy to . . . What? — 207

Book Reviews

HAROLD A. LINSTONE (Lake Oswego, OR) — *Turning the Century: Personal and Organizational Strategies for Your Changed World* (Robert Theobald) — 211

OSCAR HAUPTMAN and MOSES KIGGUNDU (Ottawa, Canada) — *Electronic Byways: State Policies for Rural Development Through Telecommunications* (Edwin B. Parker and Heather E. Hudson with Don A. Dillman, Sharon Strover, and Frederick Williams) — 213

THEODORE MODIS (Geneva, Switzerland) — *Looking Back on the Future* (Fred G. Thompson) — 217

WILLIAM E. HALAL (Washington, DC) — *Life after Television: The Coming Transformation of Media and American Life* (George Gilder) — 219

Volume 45, Number 3, March 1994

VIJAY MAHAJAN (Austin, TX) **and EITAN MULLER** (Ramat Aviv, Israel) — Innovation Diffusion in a Borderless Global Market: Will the 1992 Unification of the European Community Accelerate Diffusion of New Ideas, Products, and Technologies? — 221

PAUL SHRIVASTAVA (Lewisburg, PA) — Technological and Organizational Roots of Industrial Crises: Lessons from *Exxon Valdez* and Bhopal — 237

DIETMAR EDLER (Berlin, Germany) **and TATJANA RIBAKOVA** (Novosibirsk, Russia) — The Impact of Industrial Robots on the Level and Structure of Employment in Germany—A Simulation Study for the Period 1980–2000 — 255

PIOTR OLSZEWSKI (Singapore) **and PATRICIA MOKHTARIAN** (Davis, CA) — Telecommuting Frequency and Impacts for State of California Employees — 275

PHILIP HANS FRANSES (Rotterdam, The Netherlands) — Gompertz Curves with Seasonality — 287

HUGH J. MISER (Amherst, MA) — Systems Analysis as Dialogue: An Overview — 299

Column

JOSEPH F. COATES (Washington, DC) — *From My Perspective* A Chrestomathy of Flawed Forecasts — 307

Book Review

ARIEL DINAR (Washington, DC) — *The Emergence of Technopolis* (Robert W. Preer) — 313

Volume 45 Author Index — 315

Volume 45 Book Review Index — 315

Volume 45 Subject Index — 316

Volume Contents